

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application. Applicants have submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Listing of Claims:

1. (Currently Amended) A computer-readable storage medium having computer-executable instructions, that when executed on a computing system, perform for performing the step of exposing an interface for providing communication with a demultiplexer object which takes multiplexed multimedia data as input and outputs demultiplexed elementary media streams, the interface ~~including~~ comprising:
 - an Initialize method to configure the demultiplexer object;
 - a SetPresentationDescriptor method to dynamically set an active presentation descriptor on the demultiplexer object;
 - a ProcessInput method to provide a new input muxed stream to the demultiplexer object;
 - a ProcessOutput method to retrieve at least one elementary stream from an active presentation determined based on the dynamically set active presentation descriptor; and
 - a Flush method to flush currently queued input and output samples.
2. (Currently Amended) The computer-readable storage medium of claim 1 wherein the interface further comprises a GetPresentationDescriptor method to retrieve a clone of the currently active presentation descriptor on the demultiplexer object.

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3. (Currently Amended) The computer-readable storage medium of claim 2 wherein the GetPresentationDescriptor method includes a presentation descriptor.

4. (Currently Amended) The computer-readable storage medium of claim 1 wherein the interface further comprises a GetPendingPresentationDescriptor method to retrieve the next pending presentation.

5. (Currently Amended) The computer-readable storage medium of claim 4 wherein the GetPendingPresentationDescriptor method includes a pending presentation descriptor.

6. (Currently Amended) The computer-readable storage medium of claim 1 wherein the Initialize method includes parameters, the parameters comprising:

- a muxed stream descriptor;
- a selected media type for the muxed stream descriptor;
- an array of major types of elementary streams; and
- a count of major types in the array of major types.

7. (Currently Amended) The computer-readable storage medium of claim 1 wherein the SetPresentationDescriptor method includes a pointer to a presentation descriptor object.

8. (Currently Amended) The computer-readable storage medium of claim 1 wherein the ProcessInput method includes a pointer to a sample object.

9. (Currently Amended) The computer-readable storage medium of claim 8 wherein the ProcessInput method further includes a return value having a new presentation flag.

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10. (Currently Amended) The computer-readable storage medium of claim 9 having further computer executable instructions for performing the steps comprising:

if the new presentation flag has a TRUE value:

calling a GetPendingPresentationDescriptor method to retrieve the next pending presentation;

selecting desired streams; and

calling the SetPresentationDescriptor method to enable processing of samples from the demultiplexer's input queue.

11. (Currently Amended) The computer-readable storage medium of claim 1 wherein the ProcessOutput method includes a stream identifier and a pointer to a pointer to a sample object.

12. (Currently Amended) The computer-readable storage medium of claim 11 wherein the ProcessOutput method further includes an output return value.

13. (Currently Amended) The computer-readable storage medium of claim 12 wherein the output return value includes one of an end of stream error code and a no more data error code.

14. (Currently Amended) The computer-readable storage medium of claim 1 wherein the interface takes multiplexed data as an in-memory buffer of data.

15. (Currently Amended) The computer-readable storage medium of claim 14 wherein the multiplexed data has a format comprising at least one of Digital Video, MPEG2, and ASF.

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16. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon an Initialize data structure for use in a demultiplexer, comprising:

- a first field containing a header;
- a second field containing a muxed stream descriptor;
- a third field containing a selected media type of the muxed stream descriptor;
- a fourth field containing an array of major types of elementary streams;
- and
- a fifth field containing a count of major types in the array of major types.

17. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon a SetPresentationDescriptor data structure for use in a demultiplexer, comprising:

- a first field containing a header; and
- a second field containing a presentation descriptor.

18. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon a GetPresentationDescriptor data structure for use in a demultiplexer, comprising:

- a first field containing a header; and
- a second field containing a presentation descriptor.

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19. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon a GetPendingPresentationDescriptor data structure for use in a demultiplexer, comprising:

- a first field containing a header; and
- a second field containing a pending presentation descriptor.

20. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon a ProcessInput data structure for use in a demultiplexer, comprising:

- a first field containing a header; and
- a second field containing a pointer to a sample object.

21. (Currently Amended) A computer-readable storage medium of claim 1 further having stored thereon a ProcessOutput data structure for use in a demultiplexer, comprising:

- a first field containing a header;
- a second field containing a stream identifier; and
- a third field containing a pointer to a point to a sample object.

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